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Final

Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: 200-BP-1 Operable Unit
450 Hills Street, Richland, WA
April 23, 1992

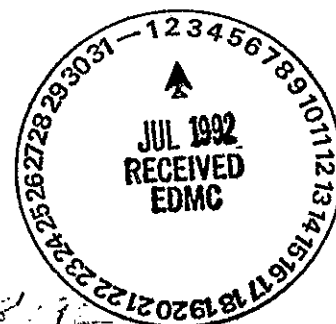
APPROVAL: Allen C Harris Date 5/28/92
Allan Harris, 200-BP-1 Unit Manager, RL (A5-19)

APPROVAL: Doug Sherwood Date 5/28/92
Doug Sherwood, 200-BP-1 Unit Manager, EPA (B5-01)

APPROVAL: Sherwood for Date 920728
Darci Teel, 200-BP-1 Unit Manager, WA Department of Ecology

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
- Attachment #2 - Agenda for the Meeting
- Attachment #3 - Attendance List
- Attachment #4 - Status of Action Items
- Attachment #5 - Task 6 Activities
- Attachment #6 - Sorption/Column Leach Testing
- Attachment #7 - Task 7 Groundwater Sampling
- Attachment #8 - Status of Task 2/4
- Attachment #9 - Task 2 Background Sampling
- Attachment #10 - Status of 200-BP-1 Operable Unit Schedule
- Attachment #11 - Task 11, Aquifer Testing RI Phase I Review



Prepared by: Suzanne Clarke Date: 5/28/92
Bill Mallio, Suzanne Clarke, GSSC

Concurrence by: Mark Buckmaster Date: 5/28/92
Mark Buckmaster, WHC RI Coordinator

Attachment #1

Meeting Summary and Summary of Commitments and Agreements
Unit Manager's Meeting: 200-BP-1 Operable Unit
April 23, 1992

1. SIGNING OF THE MARCH 200-BP-1 MEETING MINUTES:

Minutes from the March 200-BP-1 Unit Manager's Meeting were reviewed, after corrections were made to the signature page, the minutes were approved.

2. ACTION ITEM UPDATE: (See Attachment 4 for status (before April meeting), and items listed below for the update to Attachment 4 (made during the April meeting)):

There were no outstanding action items.

3. NEW ACTION ITEMS (INITIATED APRIL 23, 1992):

2BP1.52 M. Buckmaster will submit a Class 3 Change Request to omit 3 M. Buckmaster boreholes originally planned for soil sampling to establish background in the Phase 1 RI.

4. STATUS OF REMEDIAL INVESTIGATION TASKS:

- Work Plan Change Requests: Mark Buckmaster distributed a copy of the Document Change Control Form concerning frequency of data validation. See Attachment #5, page 2.
- Task 6, Phase IB Wells/Well Remediation: See Attachment #5.
- Task 11, Hydraulic Pump Testing: See Attachment #11 and agreement below.

Informal Agreement: Further Aquifer testing will be deferred to Phase 2 RI. Additional geophysical investigations will be attempted if a high energy seismic source can be employed. Use of explosives is recommended to produce the high energy source.

- Column Leach Testing: See Attachment #6 and agreement below.

Informal Agreement: A meeting will be set up to discuss the column leach test design and the list of analytes to be determined from leachate. This will include Allan Harris, Doug Sherwood, Paul Crane, Billie Mauss, and Mark Buckmaster.

- Task 7, Groundwater Sampling: See Attachment #7 and agreement below.

Informal Agreement: Sampling of groundwater from well E 33-1 will be dropped for the first Semi-Annual sampling round due to a non-functioning downhole pump.

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- Task 2/4, Crib Characterization - Borehole Drilling Status: See Attachment #8.
- Task 2, Background Sampling: See Attachment #9.
- 200-BP-1 Task Schedule Update: See Attachment #10.

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Attachment #2

**200-BP-1 UNIT MANAGERS MEETING AGENDA
APRIL 23, 1992
2:00-3:00 PM
450 HILLS ST., ROOM 47**

Introduction:

Status:

Action Items:

- o No Action Items

Work Plan:

- o Data Validation

Remedial Investigation:

- o Task 6 Phase IB Wells/Well Remediation
- o Task 11 Hydraulic Pump Testing
- o Column Leach/Sorption Testing
- o Task 3 Leak Detection Testing
- o Groundwater Sampling
- o Source and Vadose Sampling

Issues:

Other Topics:

- o Schedule

Agreements and Commitments:

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**200-BP-1 Operable Unit Managers Meeting
Official Attendance Record
April 22, 1992**

PRINTED NAME

ORGANIZATION

TELEPHONE

NAME	ORGANIZATION	PHONE
Suzanne Clarke	SWEC	(509) 372-0630
CHUCK CLINE	Ecology	(206) 438-7551
William J. Mallio	SWEC	(509) 376-6995
H.D. Downey	WHC	509-376-5539
Jerry Shust	PRC	206-624-2692
Doug Sherwood	EPA	509-376-9529
Wood Stoultz	USGS	206-555-3770
Brian Drost	USGS	206-593-6510
WILLIAM FRYER	SWEC	509-376-7930
Randall PRICE	WHC	509-372-1120
Allan C. Harris	DCE	509-376-9339
Darci Teel	Ecology	509 545 2312
N.M. Niknimbalkar	WHC	509-375-4071
Laurence Gadois	EPA	509 376-9884
Billie Mauss	Ecology	509-546-2995
Richard Hibbard	Ecology	(206) 493-9363
KATH MULLEN	PARAMETRIX	(206) 455-2550
Jon Sprecher	B&L	(503) 244-2005

Attachment #4

Status of Action Items

**200-BP-1 Operable Unit Manager's Meeting
April 23, 1992**

There were no outstanding actions items.

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Attachment #5

200-BP-1 TASK 6 ACTIVITIES

Task 6 Phase IB wells.

- o Well 699-57-59 is drilled to Total Depth 195 ft.
- o Completion activities should be finished by next week.

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Change Number 21	APPROVED DOCUMENT CHANGE CONTROL FORM Do not use blue ink. Type, or print in black	Date 4/22/92								
Document Number & Title RI/FS Work Plan for the 200-BP-1 Operable Unit, Hanford Site, Richland, Washington		Date Document Last Issued March 1990								
Originator <u>M. A. Buckmaster</u> <u>4/23/93</u> M. A. Buckmaster/200-BP-1 RI Coordinator		Phone 376-1792								
Description of Change Modify Section 8.2 validation, page SAP/QAPP-26 to indicate that data validation will be completed on 20% of CLP and non CLP data. Data validation will be in compliance with the guidelines established in the appropriate statement of work and individual method requirements.										
Note: Include affected page number										
Justification and Impacts of Change Validation of 20% of the data collected is adequate to verify the quality of the analytical data. Data quality objectives will not be compromised.										
<table> <tr> <td><u>A. C. Harris</u></td> <td>_____</td> </tr> <tr> <td>DOE UNIT MANAGER</td> <td>DATE</td> </tr> <tr> <td><u>D. R. Sherwood (EPA)</u></td> <td>_____</td> </tr> <tr> <td>LEAD REGULATORY UNIT MANAGER</td> <td>DATE</td> </tr> </table>			<u>A. C. Harris</u>	_____	DOE UNIT MANAGER	DATE	<u>D. R. Sherwood (EPA)</u>	_____	LEAD REGULATORY UNIT MANAGER	DATE
<u>A. C. Harris</u>	_____									
DOE UNIT MANAGER	DATE									
<u>D. R. Sherwood (EPA)</u>	_____									
LEAD REGULATORY UNIT MANAGER	DATE									
Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement, Section 9.3										

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Attachment #6

200-BP-1 SORPTION/COLUMN LEACH TESTING

Column Leach Testing:

- o Testing has been completed for 216-B-57 and 216-B-49.
- o Field instruments indicate between 100-300 cpm for the first 2 pore volumes less than detectable for the remaining samples.
- o Sample priority from the parameters of interest table:
 1. GEA (Cs-137, Ru-106, Co-60).
 2. Sr-90
 3. Pu-238, 239/240
 4. CN-total (PNL 5 ml, Weston 250 ml)
 5. Tc-99
 6. U-total
 7. tritium
 8. total alpha/beta
 9. anions (nitrate, sulfate, phoshate)
 10. Selenium
 11. Bismuth

Sorption Testing:

- o Testing Methodology Discussion:

9 2 1 2 6 4 2 2 1 2 1

Attachment #7

200-BP-1 TASK 7 GROUNDWATER SAMPLING

- o 1 well remains to be sampled due to a broken pump in the well.
- o Status of Analytical Data, Groundwater and Vadose Samples:

9 2 1 2 5 4 2 2 1 2 2

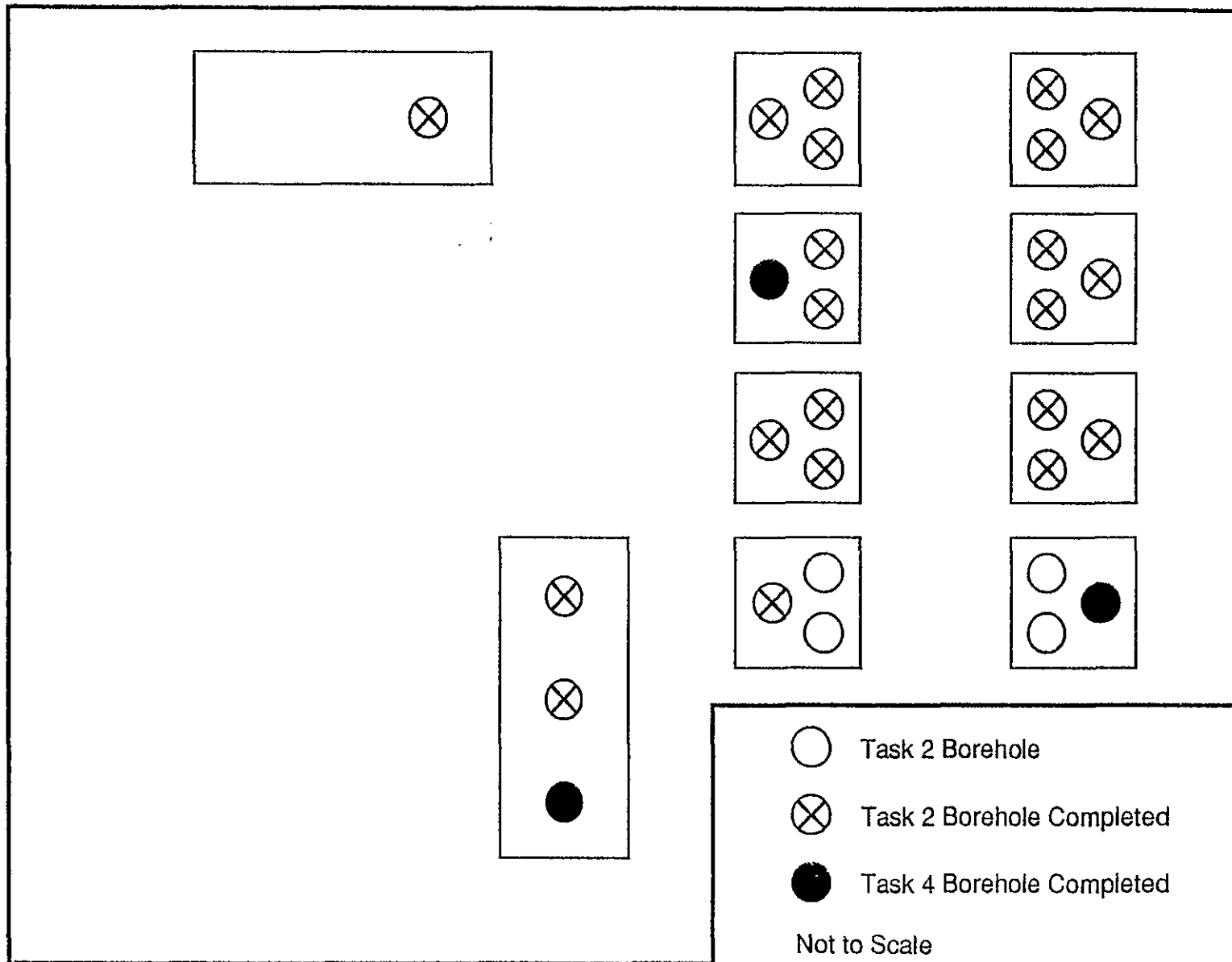
200-BP-1 SAMPLE VALIDATION SUMMARY

CHEMICAL SAMPLES					
Sample Type	Total Samples	Number of Samples Received from Laboratory	Total Validated Samples	Total Unvalidated Samples	Total Samples which have Partial Data Validated
2nd Quarter Groundwater	190	190	117	73	10
3rd Quarter Groundwater	135	135	94	41	0
Crib Samples to Date	284	131	7	277	9

RADIOCHEMICAL SAMPLES					
Sample Type	Total Samples	Number of Samples Received from Laboratory	Total Validated Samples	Total Unvalidated Samples	Total Samples which have Partial Data Validated
2nd Quarter Groundwater	60	56	0	0	0
3rd Quarter Groundwater	52	45	0	0	0
Crib Samples to Date	141	29	0	0	0

9 2 1 2 6 4 2 2 1 2 4

200-BP-1
Task 2/4 - Status



Attachment #9

TASK 2 BACKGROUND SAMPLING

1. Defer decision to drill 3 background boreholes until Phase II RI. This will allow adequate time to evaluate existing data from current RI activities.
2. Data which will be evaluated:
 - o Background samples collected during Task 6
 - 600 Area wells (Analysis Parameters of Interest)
 - 200 Area wells (Analysis Parameters of Interest)
 - o Near surface soil samples (Analysis Parameters of Interest)
 - o 216-B-61 (Analysis Parameters of Interest, TCL, TAL)
 - o 216-B-57C (Analysis Parameters of Interest, TCL, TAL)
 - o Site wide background document
3. Justification:
 - o Adequate data collected from Phase I RI.
 - o Work Plan indicates that "if soils from the 216-B-61 crib do not indicate the presence of contamination, the result will be evaluated as possible background concentrations..."
 - o Soils collected from 216-B-57C will be used as background concentrations. This was a uncontaminated borehole.
 - o The fill material collected above the crib gravels from 216-B-61 and 216-B-57C will represent background concentration better than undisturbed soils in the 600 Area.

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PHASE I REMEDIAL INVESTIGATION

TASK-1 MANAGEMENT & STATUS REPORTS

TASK-2 SOURCE SAMPLING AND ANALYSIS

TASK-2a PREPARATION

TASK-2b DRILLING AND SOIL SAMPLING

TASK-2c SAMPLE HANDLING AND TRANSFER

TASK-2d LABORATORY AVAIL. & CHEMICAL ANALYSIS

TASK-2e BOREHOLE GEOPHYSICS

TASK-2f GEODETIC SURVEY

TASK-2g BOREHOLE ABANDONMENT

TASK-3 SURFACE/NEAR SURFACE SOIL SAMPLE/ANALYSIS

TASK-3a PREPARATION

TASK-3b EVALUATE & TEST LEAK DETECTION TECHNIQUE

TASK-3c SCINTILLATION SURVEY OF LAND SURFACE

TASK-3d STAGE 1 SOIL PROBE SURVEY

TASK-3e STAGE 2 SOIL PROBE SURVEY

TASK-3f SOIL SAMPLING

TASK-3g GEODETIC CONTROL & SURVEY

TASK-3h LABORATORY AVAIL. & CHEMICAL ANALYSIS

TASK-4 VADOSE ZONE SOIL SAMPLING & ANALYSIS

TASK-4a REVIEW & PREPARATION

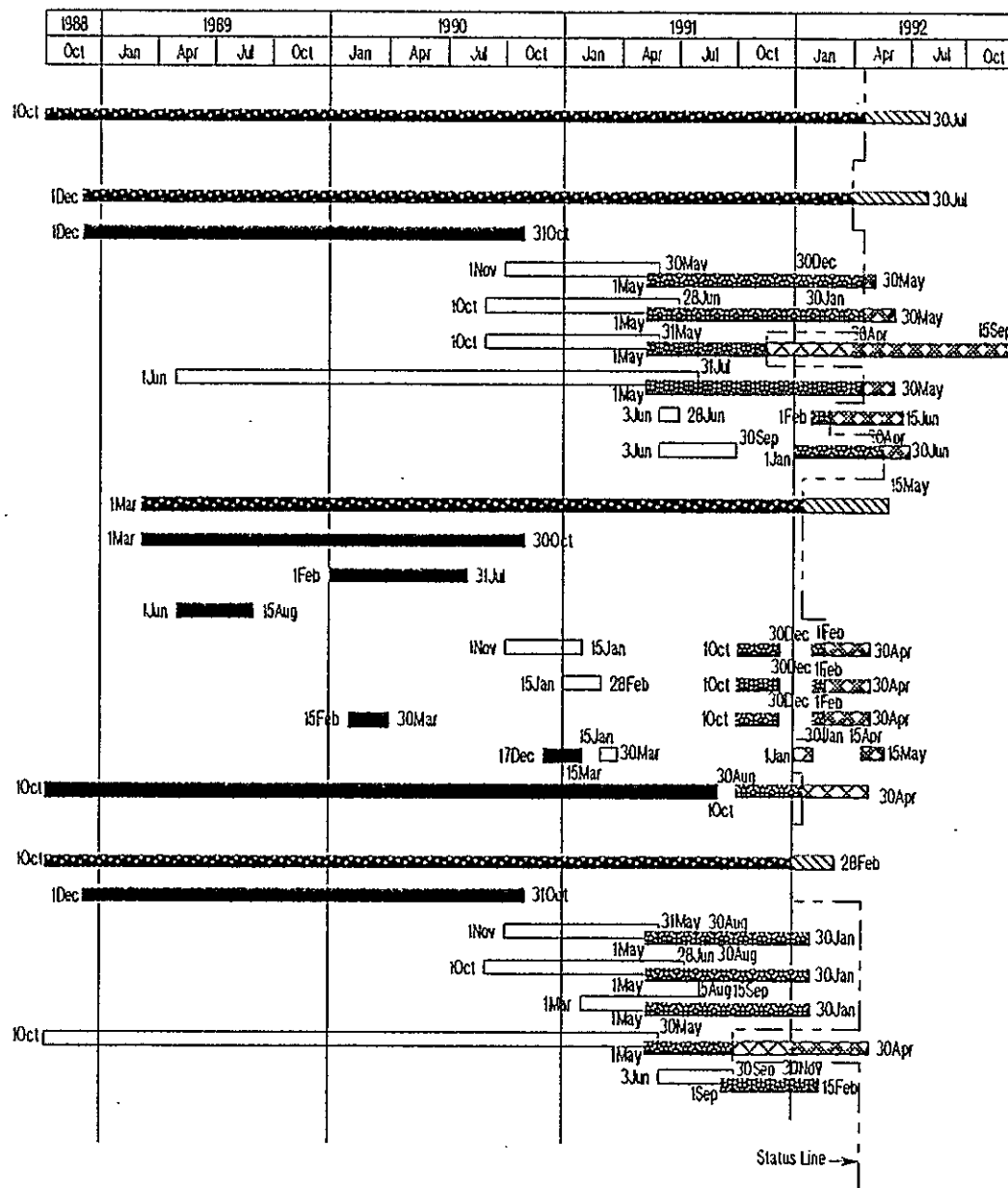
TASK-4b DRILLING & SAMPLING

TASK-4c SAMPLING, HANDLING & TRANSFER

TASK-4d BOREHOLE GEOPHYSICS

TASK-4e LABORATORY AVAIL. & CHEMICAL ANALYSIS

TASK-4f BOREHOLE ABANDONMENT



LEGEND:	
	ORIGINAL SCHEDULE ACTIVITIES
	SUMMARY ACTIVITIES
	REVISED ACTIVITIES
	ACTUAL ACTIVITIES

Project: PE13A	200BP1U	Date: 14 Apr 92 13:12
200-BP-1 REMEDIAL INVESTIGATION		
Page: 1 of 3	Drawn by: Steve J. Sakey	6-3092

9 200-BP-12 OPERABLE UNIT 2 7

TASK-8 SITE TOPOGRAPHIC MAP
 TASK-8a PREPARATION
 TASK-8b FIELD SURVEY
 TASK-8c DATA REDUCTION ON CAD

TASK-9 BIOTA SURVEY
 TASK-9a SITE RECONNAISSANCE
 TASK-9b BIOTA SAMPLING
 TASK-9c LABORATORY AVAIL. & CHEMICAL ANALYSIS

TASK-10 COLUMN LEACH TEST
 TASK-10a PREPARATION
 TASK-10b TESTING PERIOD
 TASK-10c LABORATORY AVAIL. & CHEMICAL ANALYSIS

TASK-11 HYDRAULIC PUMP TESTS
 TASK-11a PREPARATION
 TASK-11b CONDUCT SLUG TEST
 TASK-11c CONDUCT DRAWDOWN/RECOVERY TESTS

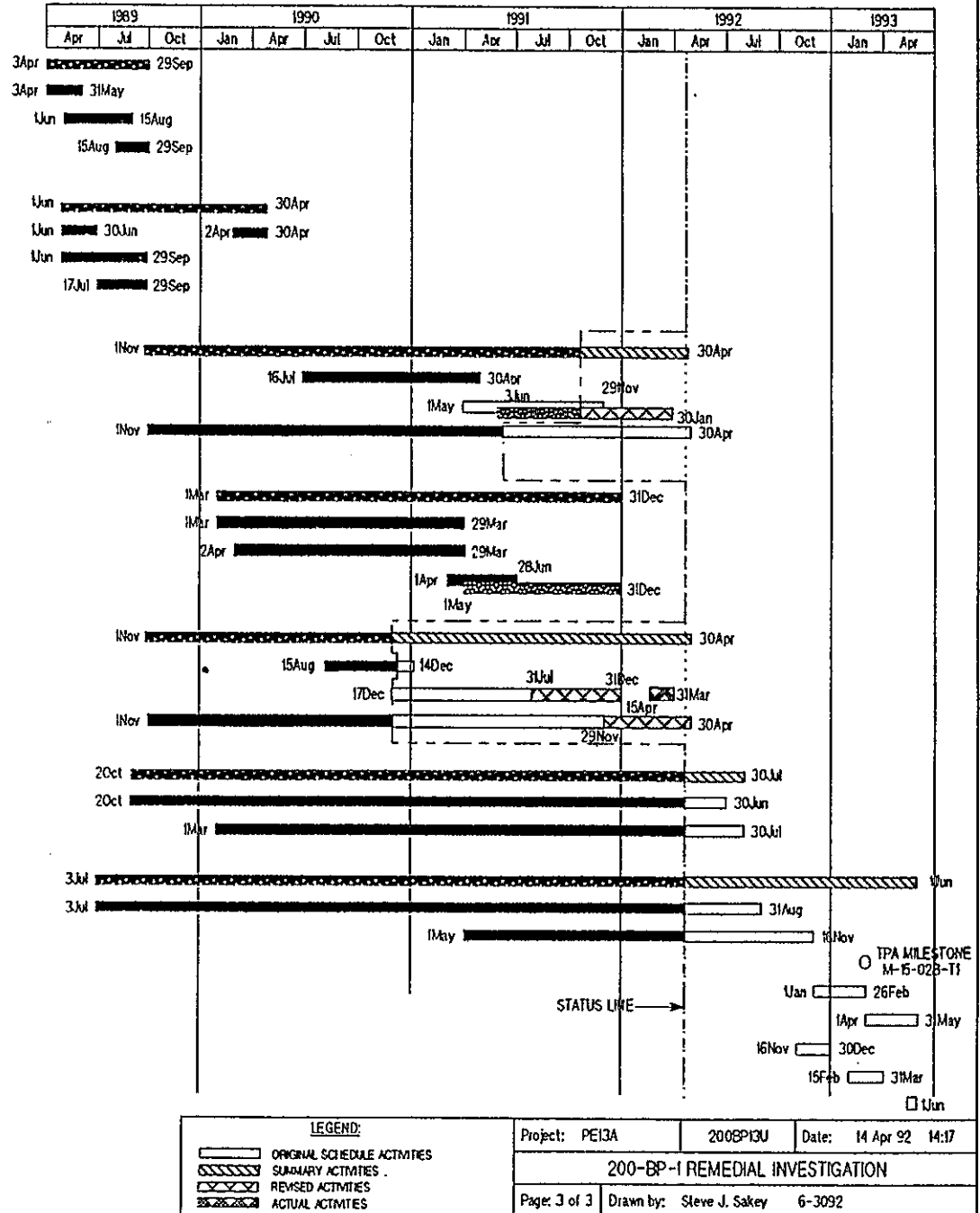
TASK-12 SORPTION TEST
 TASK-12a PREPARATION
 TASK-12b TEST PERIOD
 TASK-12c LABORATORY AVAIL. & CHEMICAL ANALYSIS

TASK-13 BASELINE RISK ASSESSMENT
 TASK-13a DATA COMPILATION
 TASK-13b DATA ANALYSIS

TASK-14 EVALUATION AND REPORT
 TASK-14a EVALUATION AND REPORT
 TASK-14b DRAFT REPORTS

TASK-14c FINAL REPORT & REVIEW

FINAL SECONDARY REPORT



TASK 11 AQUIFER TESTING

200-BP-1 RI PHASE I REVIEW

- **Purpose is to obtain hydraulic properties of the unconfined and Rattlesnake Ridge aquifer**

TASK 11 AQUIFER TESTING

200-BP-1 RI PHASE 1 REVIEW

- **Slug tests will be conducted on all wells that are to be hydraulically tested**
- **Drawdown/recovery testing to be performed only on wells that do not require collection of purge water**
- **For drawdown/recovery tests, well efficiency and transmissivity will be estimated**
- **Barometric efficiency estimated for confined wells**

Wells that have been slug tested

Unconfined wells

299-E33-38

299-E33-39

699-48-50

699-52-54

699-52-57

699-53-55C

699-54-57

699-55-55

Confined well

299-E33-40

699-49-55B

699-49-57B

699-50-53B

4/22/92

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Unconfined Well (Slug Tests)

<u>Well #</u>	<u>Quality of Data</u>
299-E33-38	N/I
299-E33-39	N/I
699-48-50	N/I
699-52-54	N/I
699-52-57	I
699-53-55C	N/I
699-54-57	in progress
699-55-55	N/I

N/I=not interpretable

I= interpretable

4/22/92

Confined Wells (Slug tests)

<u>Well #</u>	<u>Quality of data</u>
299-E33-40	I
699-49-55B	I
699-49-57B	I
699-50-53B	in progress

I= interpretable

4/22/92

9 2 1 2 6 4 2 2 1 3 2

Wells that have been pump tested Constant discharge drawdown/recovery

Unconfined wells

699-52-54

699-53-55A,B,C

699-52-57

Confined wells

699-49-57B

9 2 1 2 6 4 2 2 1 3 3

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Constant Discharge

<u>Well #</u>	<u>Hydraulic Conduct.</u>	<u>Transmissivity</u>
699-49-57B	6 ft/d, $b > 15$ ft	145 ft ² /d
699-52-54	230 ft/d, $b = 5$ ft	2,000 ft ² /d
699-53-55A,B,C	N/I, $b = 100$ ft	70-90,000 ft ²
699-52-57	10 ft/d, $b = 10.5$	120 ft ² /d

4/22/92

Recommendations

Task 11

No additional large scale aquifer testing under Phase 1

Reasons:

1. No existing well network to support large scale testing
2. All wells that can support single wells tests have been completed
3. Further definition of DQO's for aquifer testing
4. Additional testing in Phase 2

4/22/92

Distribution

Unit Manager's Meeting: 200-BP-1 Operable Unit
April 23, 1992

Roger D. Freeberg Chief, Rstr. Br., DOE-RL/ERD (A5-19)
 Ronald E. Gerton Director, DOE-RL (A4-02)
 Mike Thompson, DOE-RL, EAP/RPB (A5-19)
 Diane Clark, DOE-RL, TSD/SSB (A5-55)
 Mary Harmon, DOE-HQ (EM-442)
 Suzanne Clarke, SWEC GSSC to DOE-RL (A4-35)

Dennis Faulk 100 Aggregate Area Manager, EPA (B5-01)
 Pamela Innis EPA (B5-01)
 Ward Staubitz, USGS Support to EPA
 Donna Lacombe, PRC Support to EPA

Darci Teel 100 Aggregate Area Manager, WDOE (Kennewick)
 Larry Goldstein WDOE (Lacy)

Richard D. Wojtasek Prgm. Mgr. WHC (L4-92)
 Tom Wintczak WHC (L4-92)
 Mel Adams WHC (H4-55)
 L.D. Arnold WHC (B2-35)
 Rich Carlson WHC (H4-55)
 Mark Buckmaster WHC (H4-55)
 Doug Dunster Golder Associates, Support to WHC

Don Praast, GAO (A1-80)
 Ralph O. Platt Oregon Water Resources Department

ADMINISTRATIVE RECORD: 200-BP-1; Care of EDMC, WHC (H4-22)

This list has been updated. Please inform Suzanne Clarke (SWEC) of deletions or additions to the distribution list.

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